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OM protein - protein search, using sw model

Run on: January 30, 2002, 11:49:55 ; Search time 53.29 Seconds

(without alignments)
19.460 Million cell updates/sec

Title: US-09-432-546-5
Perfect score: 103
Sequence: 1 SRMPWMPWPKWPL 14

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 522463 seqs, 74073290 residues
Total number of hits satisfying chosen parameters: 522463

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: A.Geneseq-1101:*
2: /SID8/gcgdata/geneseq/AA1980.DAT:*
3: /SID8/gcgdata/geneseq/AA1981.DAT:*
4: /SID8/gcgdata/geneseq/AA1982.DAT:*
5: /SID8/gcgdata/geneseq/AA1983.DAT:*
6: /SID8/gcgdata/geneseq/AA1984.DAT:*
7: /SID8/gcgdata/geneseq/AA1985.DAT:*
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9: /SID8/gcgdata/geneseq/AA1987.DAT:*
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12: /SID8/gcgdata/geneseq/AA1990.DAT:*
13: /SID8/gcgdata/geneseq/AA1991.DAT:*
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16: /SID8/gcgdata/geneseq/AA1994.DAT:*
17: /SID8/gcgdata/geneseq/AA1995.DAT:*
18: /SID8/gcgdata/geneseq/AA1996.DAT:*
19: /SID8/gcgdata/geneseq/AA1997.DAT:*
20: /SID8/gcgdata/geneseq/AA1998.DAT:*
21: /SID8/gcgdata/geneseq/AA1999.DAT:*
22: /SID8/gcgdata/geneseq/AA2000.DAT:*
23: /SID8/gcgdata/geneseq/AA2001.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	103	100.0	14	21	AAV92797
2	99	96.1	13	21	AAV92796
3	99	96.1	13	21	AAV92806
4	99	96.1	15	22	AAV97449
5	99	96.1	26	21	AAV92798
6	99	96.1	68	21	AAV92840
7	78	75.7	14	18	AAV13809
8	75	72.8	11	28	AAV13801
9	73	70.9	13	16	AAV97443
10	73	70.9	13	16	AAV78454
11	73	70.9	13	19	AAV24549

12	73	70.9	13	21	AAV91775	Amino acid sequenc
13	70.5	68.4	15	19	AAV6360	Indollicidin analog
14	70.5	68.4	15	21	AAV91784	Amino acid sequenc
15	70	68.0	12	19	AAV24566	Indollicidin analog
16	70	68.0	12	19	AAV24551	Indollicidin analog
17	70	68.0	12	21	AAV91787	Amino acid sequenc
18	70	68.0	12	21	AAV91792	Amino acid sequenc
19	70	68.0	13	18	AAV12895	Antimicrobial cati
20	70	68.0	13	19	AAV24607	Indollicidin analog
21	70	68.0	13	19	AAV24565	Indollicidin analog
22	70	68.0	13	19	AAV6375	Cationic peptide o
23	70	68.0	13	21	AAV91786	Amino acid sequenc
24	70	68.0	13	21	AAV91794	Amino acid sequenc
25	70	68.0	27	19	AAV6363	Indollicidin analog
26	70	68.0	28	21	AAV91800	Amino acid sequenc
27	69.5	67.5	16	18	AAV12889	Antimicrobial cati
28	67.5	65.5	16	18	AAV12882	Antimicrobial cati
29	67	65.0	11	19	AAV24591	Indollicidin analog
30	67	65.0	11	21	AAV91834	Amino acid sequenc
31	67	65.0	13	18	AAV27179	Antimicrobial cati
32	67	65.0	13	18	AAV12889	Antimicrobial cati
33	67	65.0	13	18	AAV12894	Antimicrobial cati
34	67	65.0	13	19	AAV24610	Indollicidin analog
35	67	65.0	13	21	AAV91795	Amino acid sequenc
36	67	65.0	20	19	AAV24553	Indollicidin analog
37	67	65.0	20	21	AAV91797	Amino acid sequenc
38	67	65.0	63	21	AAV44668	Poly-(Indol (1-13)
39	67	65.0	63	21	AAV57142	Indollicidin fusion
40	66	64.1	21	19	AAV24582	Indollicidin analog
41	66	64.1	21	21	AAV91806	Amino acid sequenc
42	66	64.1	112	22	AAV12878	Human EST encoded
43	65.5	63.6	15	18	AAV12878	Antimicrobial cati
44	65.5	63.6	15	18	AAV12880	Antimicrobial cati
45	65	63.1	12	16	AAV78456	Indollicidin analog

ALIGNMENTS

RESULT 1	
ID	AAV92797 standard; peptide: 14 AA.
XX	
AC	AAV92797;
XX	
DT	29-AUG-2000 (first entry)
XX	
DE	Synthetic antimicrobial peptide, Ser-Rev4-OH.
XX	
KW	Magainin; antimicrobial; transgenic plant; protease degradation; Rev4;
XX	indollicidin; protein production; reverse peptide.
OS	Synthetic.
XX	
PN	WO200026344-A1.
PD	11-MAY-2000.
XX	
PF	29-OCT-1999; 99WO-US25561.
XX	
PR	30-OCT-1998; 98US-0106373.
XX	
PR	02-NOV-1998; 98US-0106537.
XX	
PA	(INTE-) INTERLINK BIOTECHNOLOGIES LLC.
XX	(KENT) UNIV KENTUCKY RES FOUNO.
PI	Everett NP, Li Q, Lawrence C, Davies MH;
XX	
DR	WPI, 2000-365597/31.
XX	
PT	Polypeptides for reducing proteolytic degradation of proteins
PT	administered to, or produced by a plant comprise indollicidin or its
PT	functional equivalents

XX Claim 3; Page 34; 50pp; English.
 PS
 CC Indolicidin is a potent antimicrobial tridecapeptide, originally purified
 CC from cytoplasmic granules of bovine neutrophils. A non C-terminal amide
 CC analogue of Rev4 (reverse indolicidin) with an additional N-terminal Ser
 CC was found to have increased stability against plant protease degradation
 CC as well as potent antifungal activity. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in plants.
 SQ Sequence 14 AA;

Query Match 100.0%; Score 103; DB 21; Length 14;
 Best Local Similarity 100.0%; Pred. No. 1.3e-07;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 SRPMPWPKWPLI 14
 DB 1 SRPMPWPKWPLI 14

RESULT 2

AA92796
 ID AAY92796 standard; peptide; 13 AA.

AC AAY92796;

DT 29-AUG-2000 (first entry)

DE Synthetic antimicrobial peptide, indolicidin reverse peptide, Rev4-amide.

KW Magainin; antimicrobial; transgenic plant; protease degradation; Rev4;
 KM indolicidin; protein production; reverse peptide.

OS Synthetic.

Key Location/Qualifiers
 FH Modified-site 13
 FT /note="amided"

PN WO200026344-A1.

PD 11-MAY-2000.

PF 29-OCT-1999; 99WO-US25561.

PR 30-OCT-1998; 98US-0106373.

PR 02-NOV-1998; 98US-0106537.

PA (INTE-) INTERLINK BIOTECHNOLOGIES LLC.
 PA (KENT) UNIV KENTUCKY RES FOUND.

PI Everett NP, Li Q, Lawrence C, Davies MH;

DR WPI; 2000-365597/31.

DR N-PSDB; AAA28510.

PT Polypeptides for reducing proteolytic degradation of proteins
 PT administered to, or produced by a plant comprise indolicidin or its
 PT functional equivalents

PS Claim 28; Page 34; 50pp; English.

CC Indolicidin is a potent antimicrobial tridecapeptide, originally
 CC purified from cytoplasmic granules of bovine neutrophils. Reverse

CC peptide, Rev4 of indolicidin (see AAY92794) was found to have increased
 CC stability against plant protease degradation. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
 CC also useful for production of agronomically important proteins in
 CC plants.
 SQ Sequence 13 AA;

Query Match 96.1%; Score 99; DB 21; Length 13;
 Best Local Similarity 100.0%; Pred. No. 4e-07;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RRPMPWPKWPLI 14
 DB 1 RRPMPWPKWPLI 13

RESULT 3

AA92806
 ID AAY92806 standard; peptide; 13 AA.

AC AAY92806;

DT 29-AUG-2000 (first entry)

DE Antimicrobial peptide, indolicidin reverse peptide, Rev4.

KW Magainin; antimicrobial; transgenic plant; protease degradation; Rev4;
 KM indolicidin; protein production; reverse peptide.

OS Synthetic.

PN WO200026344-A1.

PD 11-MAY-2000.

PF 29-OCT-1999; 99WO-US25561.

PR 30-OCT-1998; 98US-0106373.

PR 02-NOV-1998; 98US-0106537.

PA (INTE-) INTERLINK BIOTECHNOLOGIES LLC.
 PA (KENT) UNIV KENTUCKY RES FOUND.

PI Everett NP, Li Q, Lawrence C, Davies MH;

DR WPI; 2000-365597/31.

DR N-PSDB; AAA28510.

PT Polypeptides for reducing proteolytic degradation of proteins
 PT administered to, or produced by a plant comprise indolicidin or its
 PT functional equivalents

PS Claim 28; Page 35; 50pp; English.

CC Indolicidin is a potent antimicrobial tridecapeptide, originally
 CC purified from cytoplasmic granules of bovine neutrophils. Reverse
 CC peptide, Rev4 of indolicidin (see AAY92794) was found to have increased
 CC stability against plant protease degradation. Expression of antimicrobial
 CC peptides in transgenic plants suffers a major limitation in that the
 CC foreign peptides are susceptible to rapid degradation by proteases. The
 CC invention concerns reducing the extent of protease degradation of a
 CC protein applied to, or produced by a plant by administering indolicidin,
 CC Rev4 or a functional equivalent to the plant. Transgenic plants
 CC expressing indolicidin and Rev4 are useful for production of the
 CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are

CC also useful for production of agronomically important proteins in
CC plants.
XX
SQ Sequence 13 AA;

Query Match 96.1%; Score 99; DB 21; Length 13;
Best Local Similarity 100.0%; Pred. No. 4e-07;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RRWPMPWKMPLI 14
|||||
Db 1 rrwpmpwkmpLi 13

RESULT 4

AAB97449 standard; Protein; 15 AA.

AC AAB97449;

XX 31-JUL-2001 (first entry)

DE Peptide nucleic acid peptide fragment #17.

XX Peptide nucleic acid; PNA; antibiotic; antisense; enterococcus;

KW *Staphylococcus aureus*; *Escherichia coli*; infectious disease;

KW disinfectant; cationic peptide; linker.

XX Synthetic.

XX WO200127261-A2.

XX 19-APR-2001.

XX 13-OCT-2000; 2000WO-DK00580.

XX 13-OCT-1999; 99DK-0001467.

XX 13-OCT-1999; 99US-0158679.

XX 15-OCT-1999; 99US-0158684.

XX 03-DEC-1999; 99DK-0001734.

XX 28-MAR-2000; 2000DK-0000522.

XX 19-APR-2000; 2000DK-0000670.

XX 14-JUN-2000; 2000US-0211435.

XX 14-JUN-2000; 2000US-0211758.

XX 14-JUN-2000; 2000US-0211878.

XX (PANT-) PANTHECO AS.

XX Nielsen PE, Good L, Hansen HF, Beck F, Malik L, Schou C;

XX Wissenbach M, Glawerman BK;

XX WPI; 2001-273770/28.

XX New modified peptide nucleic acids and oligonucleotides, useful for

XX treating and preventing bacterial infections and disinfecting

XX non-living objects -

XX Claim 15; Page 11; 81pp; English.

XX The present invention provides the sequences of a number of peptide

XX nucleic acids (PNAs) joined by linker sequences. These are capable of

XX crossing bacterial cell walls due to the presence of the linker. The PNAs

XX can be used as antimicrobial agents, particularly as antibiotics against

XX *E. coli*, vanomycin-resistant enterococci and *Staphylococcus aureus*. The

XX present sequence is the peptide fragment of a PNA of the invention.

XX Sequence 15 AA;

Query Match 96.1%; Score 99; DB 22; Length 15;
Best Local Similarity 100.0%; Pred. No. 4.6e-07;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RRWPMPWKMPLI 14
|||||
Db 2 rrwpmpwkmpLi 14

RESULT 5

AAY92798 standard; peptide; 26 AA.

AC AAY92798;

XX 29-AUG-2000 (first entry)

DE Synthetic antimicrobial peptide, Rev4-C-fusion.

XX Magainin; antimicrobial; transgenic plant; protease degradation; Rev4;

XX indolicidin; protein production; reverse peptide.

XX Synthetic.

XX WO200026344-A1.

XX 11-MAY-2000.

XX 29-OCT-1999; 99WO-US25561.

XX 30-OCT-1998; 98US-0106373.

XX 02-NOV-1998; 98US-0106537.

XX (INTE-) INTERLINK BIOTECHNOLOGIES LLC.

XX (KENT) UNIV KENTUCKY RES FOUND.

XX Everett NF, Li Q, Lawrence C, Davies MH;

XX WPI; 2000-365597/31.

XX Polypeptides for reducing proteolytic degradation of proteins

XX administered to, or produced by a plant comprise indolicidin or its

XX functional equivalents

XX Claim 4; Page 34; 50pp; English.

XX Indolicidin is a potent antimicrobial tridecapeptide, originally purified

XX from cytoplasmic granules of bovine neutrophils. Rev4 (reverse

XX indolicidin) with a C-terminal extension of 13 amino acids

XX was found to have increased stability against plant protease degradation

XX as well as potent antifungal activity. Expression of antimicrobial

XX peptides in transgenic plants suffers a major limitation in that the

XX foreign peptides are susceptible to rapid degradation by proteases. The

XX invention concerns reducing the extent of protease degradation of a

XX protein applied to, or produced by a plant by administering indolicidin,

XX Rev4 or a functional equivalent to the plant. Transgenic plants

XX expressing indolicidin and Rev4 are useful for production of the

XX antimicrobial peptides. Compositions containing indolicidin and Rev4 are

XX also useful for production of agronomically important proteins in plants.

XX Sequence 26 AA;

Query Match 96.1%; Score 99; DB 21; Length 26;
Best Local Similarity 100.0%; Pred. No. 8.1e-07;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RRWPMPWKMPLI 14
|||||
Db 1 rrwpmpwkmpLi 13

RESULT 6

AAV92840
ID AAV92840 standard; Protein; 68 AA.
XX
AC AAV92840;
XX
DT 29-AUG-2000 (first entry)
XX
DE Rev4-PR-1b fusion.
XX
KW Magalain; antimicrobial; transgenic plant; protease degradation; Rev4;
indolicidin; protein production; reverse peptide; ss.
XX
OS Synthetic.
XX
PN WO200026344-A1.
XX
PD 11-MAY-2000.
XX
PF 29-OCT-1999; 99WO-US25561.
XX
PR 30-OCT-1998; 98US-0106373.
XX
PR 02-NOV-1998; 98US-0106537.
XX
PA (INTE-) INTERLINK BIOTECHNOLOGIES LLC.
XX
PA (KENT) UNIV KENTUCKY RES FOUND.
XX
PI Everett NP, Li Q, Lawrence C, Davies MH;
XX
DR WPI: 2000-365597/31.
XX
DR N-PSDB: AAA28519.
XX
PT Polypeptides for reducing proteolytic degradation of proteins
XX administered to, or produced by a plant comprise indolicidin or its
XX functional equivalents
XX
PS Disclosure: Page 35-36; 50pp; English.
XX
XX Indolicidin is a potent antimicrobial tridecapeptide, originally
CC purified from cytoplasmic granules of bovine neutrophils. Reverse
CC peptide, Rev4 of indolicidin (see AAV92794) was found to have increased
CC stability against plant protease degradation. Expression of antimicrobial
CC peptides in transgenic plants suffers a major limitation in that the
CC foreign peptides are susceptible to rapid degradation by proteases. The
CC invention concerns reducing the extent of protease degradation of a
CC protein applied to, or produced by a plant by administering indolicidin,
CC Rev4 or a functional equivalent to the plant. Transgenic plants
CC expressing indolicidin and Rev4 are useful for production of the
CC antimicrobial peptides. Compositions containing indolicidin and Rev4 are
CC also useful for production of agronomically important proteins in
CC plants.
XX
SQ Sequence 68 AA:

Query Match 96.1%; Score 99; DB 21; Length 68;
Best Local Similarity 100.0%; Pred. No. 2,1e-06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRMPWMPKMPLI 14
DB 56 RTWPWMPKMPLI 68

RESULT 7
AAW13809
ID AAW13809 standard; peptide; 14 AA.
XX
AC AAW13809;
XX
XX 10-DEC-1997 (first entry)
XX
DE Antimicrobial cationic peptide CP-13.
XX

KW Bacterial; viral; antitumour; food; preservative; inhibitor; growth;
KW bacterium; yeast; endotoxaemia; sepsis; antibiotic; fungal;
KW antiviral; Candida albicans; steriliant; Salmonella; Yersinia;
KW Shigella.
XX
OS Synthetic.
XX
PN WO9708199-A2.
XX
PD 06-MAR-1997.
XX
PF 23-AUG-1996; 96WO-IB00996.
XX
PR 23-AUG-1995; 95US-0002687.
XX
PA (UYBR-) UNIV BRITISH COLUMBIA.
XX
PI Falla TJ, Gough M, Hancock REM;
XX
DR WPI: 1997-179179/16.
XX
XX
XX
PT Cationic peptide(s) having anti-microbial activity - used for the
XX inhibition of bacterial and viral growth, as an antitumour agent,
XX and as a food preservative
XX
PS Claim 8; Page 68; 89pp; English.
XX
XX The present sequence represents a specifically claimed novel isolated
CC cationic peptide which has antimicrobial activity. The amino acid
CC sequence of antimicrobial cationic peptides (including the present
CC sequence) is selected from: X1X1ProX2X3X2Pro(X2X2Pro)nX2X3(X5)0;
CC X1X1ProX2X3X4(X5)ProX2X3X3; X1X1X3(ProTrp)X3X2X5X2X5X2(X5)0;
CC X1X1X3X3X2Pro(X2X2Pro)nX2(X5)m; where m = 1-5; n = 1-2; o = 2-5; r
CC = 0-8; u = 0-1; X1 = Ile, Leu, Val, Phe, Tyr, Trp or Met; X2 = Trp or
CC Phe; X3 = Arg or Lys; X4 = Trp or Lys; and X5 = Phe, Trp, Arg, Lys or
CC Pro. The peptides are preferably amidated or carboxymethylated. The
CC peptides may be used in methods for inhibiting the growth of a bacterium
CC or yeast, or for inhibiting an endotoxaemia or sepsis associated
CC disorder in a subject. The peptides have a broad activity against
CC antibiotic resistant bacteria, combined with activity against the
CC medically important fungus Candida albicans. In addition, the peptides
CC are useful as antitumour agents and/or antiviral agents. The peptides
CC may be used as sterilants or preservatives of materials susceptible to
CC microbial or viral contamination, e.g. in processed foods to inhibit
CC Salmonella, Yersinia and Shigella. The peptides are compact and tend to
CC have a unique polypyrrole type II extended helix structure that permits
CC them to span the membrane with relatively few amino acids. The peptides
CC possess the ability to work synergistically with antibiotics, and in
CC addition, some of them possess anti-endotoxin activity.
XX
SQ Sequence 14 AA:

Query Match 75.7%; Score 78; DB 18; Length 14;
Best Local Similarity 80.0%; Pred. No. 0.00023;
Matches 8; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 2 RRMPWMPKMP 11
DB 3 KWPWMPKMP 12

RESULT 8
AAW13801
ID AAW13801 standard; peptide; 15 AA.
XX
AC AAW13801;
XX
XX 10-DEC-1997 (first entry)
XX
DE Antimicrobial cationic peptide CP-27.
XX
KW Bacterial; viral; antitumour; food; preservative; inhibitor; growth;

XX	Synthetic.
OS	
XX	Key
FH	Location/Qualifiers
FT	Misc-difference 13
FT	/note= "Arg to Trp mutation, amidated"
XX	
PN	MO9522338-A1.
XX	
PD	24-AUG-1995.
XX	
PF	10-FEB-1995; 95WO-USO1895.
PR	16-FEB-1994; 94US-0197205.
XX	
PA	(REGC) UNIV CALIFORNIA.
XX	
PI	Selected ME;
XX	
DR	WPI; 1995-302552/39.
XX	
PT	Analogues of the tryptophan-rich peptide indolicidin - exhibiting broad spectrum antimicrobial activity and selectivity without undesirable side effects
PT	
XX	
PS	Claim 6; Page 27; 37P; English.
XX	
CC	The sequences represented by AAR78454-R78459 are indolicidin analogues. These analogues exhibit broad spectrum antimicrobial activity and have antimicrobial selectivity when compared to naturally occurring indolicidin. The antimicrobial activity of these analogues can be altered by incorporation of D-form, chemically altered or synthetic amino acids. These sequences can be incorporated into a pharmaceutical composition (e.g. as a liposome or non-liposome lipid complex carrier) for use in a microbicidal method. These sequences are active against Gram positive and negative bacteria, protozoa, yeast, fungi and viruses. CC They can be used as therapeutic agents, prophylactics, food preservatives, disinfectants or medications. These sequences are easily preserved in an active and effective broad spectrum antimicrobial form with decreased undesirable side effects. Compared to naturally occurring indolicidin, these analogues show increased antimicrobial and decreased haemolytic activity. peptide stability, and period of activity within the cell can be increased or decreased according to the incorporation of D- or L-form amino acids.
CC	
CC	
SC	Sequence 13 AA:
SO	
Query Match	70.9%; Score 73; DB 16; Length 13;
Best Local Similarity	77.8%; Pred. No. 0.00094;
Matches 7; Conservative 2; Mismatches 0; Indels 0; Gaps 0.	
OY	3 RMPWPWMKW 11 .: :1
DB	5 kypwmpwmv 13
RESULT 11	
AAY24549	
ID	AAY24549 standard; peptide; 13 AA.
XX	
AC	AAY24549;
XX	
DT	18-AUG-1999 (first entry)
DE	
XX	Indolicidin analogue #1.
KM	Indolicidin; bacterial infection; photo-oxidised solubiliser; antimicrobial; antibiotic; antiarhythmic; surface disinfectant; additive; shampoo; soap; insecticide; herbicide; preservative; food; technical material.
KM	

OS	Synthetic.
PX	PN W09807745-A2.
XX	PD 26-FEB-1998.
XX	PE 21-AUG-1997; 97WO-US14779.
XX	PR 13-JAN-1997; 97US-0034949.
XX	PR 21-AUG-1996; 96US-0024754.
PA	(MICR-) MICROLOGIX BIOTECH INC.
PI	Erfle D, Fraser JR, Krieger TJ, Taylor R, West MH;
XX	WPJ; 1998-169090/15.
DR	
PT	New indolicidin analogues with antimicrobial activity and related
PT	nucleic acid - vectors, transformed cells and antibodies, also
PT	conjugates with polyoxalkylene glycol and fatty acid to reduce
PT	toxicity, useful therapeutically, as disinfectants etc.
PS	Claim 11, Page 88; 129pp; English.
XX	
CC	AAY24549 to AAY24615 represent indolicidin analogues of formulae
CC	(I)-(VIII) containing up to 25 amino acids (aa): RxxXxxXx (I), BxxXxxXx
CC	(II), BBxxXxxXxB (III), BxxXxxBBBn(AA)nMTLBBAGS (IV), BxxXxxBB(AA)nM
CC	(V), LBbxxZxxZxxnXnRK (VI), LKnXxxXxxNRK (VII) and BbxXxxXxBBB (VIII).
CC	Where Z = P or V; X = hydrophobic residue, preferably W; B = basic aa,
CC	preferably R or K; AA = any aa; n = 0 or 1; In (II), at least 1 Z = V;
CC	In (VIII) at least 2 X = F or Y. The analogues are used to treat
CC	infections caused by bacteria (Gram positive or negative, or anaerobic);
CC	Fungal (yeast or moulds), parasites (protozoa, nematodes, cestodes or
CC	trematodes) or viruses. Typical of very many pathogens that can be
CC	controlled are Leishmania, Trypanosoma, Ascaris lumbricoides, Fasciola
CC	hepatica, Klebsiella pneumoniae, Bordetella pertussis, Staphylococcus
CC	aureus, Listeria, Clostridium, rotavirus and papilloma virus. Compounds
CC	derived from the analogues may be used similarly; the compounds may
CC	also be prepared from antibiotics or antiarrhythmic agents. The analogues
CC	may be used therapeutically or to coat medical devices; also they are
CC	useful as surtice disinfectants, as additives to shampoo or soaps, as
CC	insecticides or herbicides, or as preservatives for foods and technical
CC	materials. The analogues are administered by injection, lavage, orally
CC	or topically, generally at 0.1-50 mg/Kg. These analogues have a broader
CC	spectrum of activity than indolicidin and modification as compounds >
CC	reduces their toxicity.
XX	
SQ	Sequence 13 AA:
	Query Match 70.9%; Score 73; DB 19; Length 13;
	Best Local Similarity 100.0%; Pred. No. 0.00094;
Matches	9; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
DY	2 RRWPMWPK 10
DB	2 RIWPMWPK 10
RESULT 12	
ID	AAY91775 standard; Peptide; 13 AA.
AC	AAY91775;
XX	
DT	06-JUN-2000 (first entry)
DE	Amino acid sequence of cationic peptide MB1 11CNR.
XX	
KW	Cationic peptide; tumour; pharmaceutical composition; cancer; treatment; lenkemia; polyoxalkylene-modified; Apo; lymphoma; multiple myeloma; breast; lung; ovary; cervix; uterus; skin; prostate; liver; colon;

KW multidrug resistance.
 XX Synthetic.
 OS
 XX WO9965506-A2.
 PN
 XX 23-DEC-1999.
 PD
 XX 14-JUN-1999; 99WO-CA00552.
 PF
 XX 12-JUN-1998; 98US-0096541.
 PR
 XX (MICR-) MICROLOGIX BIOTECH INC.
 PA
 XX Friedland HD, Krieger TJ, Taylor R, Erfle D, Fraser JR, West MHP;
 PI WPI; 2000-223549/19.
 DR
 XX Novel pharmaceutical composition containing optionally activated
 PT polyoxaalkylene-modified cationic peptides, useful for treating tumours
 PS
 XX Disclosure; Page 14; 94pp; English.
 CC This sequence represents a cationic peptide amino acid sequence, which
 CC can be used in the pharmaceutical composition of the invention. The
 CC invention relates to a pharmaceutical composition containing at least one
 CC activated polyoxaalkylene (APO)-modified cationic peptide. The
 CC modification of peptides with APO increases their activity against tumour
 CC cells, including those with a multidrug resistant phenotype. The
 CC pharmaceutical composition can be used to treat tumours, specifically
 CC lymphoma, leukaemia, multiple myeloma, or tumours of breast, lung, ovary,
 CC cervix, uterus, skin, prostate, liver and colon.
 CC
 SQ Sequence 13 AA;
 QY
 DB 2 RRPMPMPMK 10
 2 RRPMPMPMK 10
 2 RRPMPMPMK 10

Query Match 70.9%; Score 73; DB 21; Length 13;
 Best Local Similarity 100.0%; Pred. No. 0.00094;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 13
 AAM66360
 ID AAM66360 standard; peptide; 15 AA.
 XX
 AC AAM66360;
 XX
 DT 12-JAN-1999 (first entry)
 XX
 DE Indolicidin analogue MBI 11A9.
 XX
 KW Indolicidin analogue; resistance; cationic peptide; antibiotic;
 KW bacterial infection; tolerance; antibacterial; microorganism;
 KW bacteria; fungus; parasite; virus.
 XX
 OS Bos taurus.
 OS Synthetic.
 XX
 PN WO9840401-A2.
 PD
 XX 17-SEP-1998.
 PD
 XX 10-MAR-1998; 98WO-CA00190.
 PF
 XX 25-FEB-1998; 98US-0030619.
 PR 10-MAR-1997; 97US-0040649.
 PR 20-AUG-1997; 97US-0915314.
 PR 26-SEP-1997; 97US-0060099.
 PS

XX
 PA (MICR-) MICROLOGIX BIOTECH INC.
 XX
 PI Fraser JR, McNICOL PJ, West MHP;
 XX
 DR WPI; 1998-520800/44.
 XX
 PT New indolicidin peptide analogues - useful for, e.g. enhancing
 PT activity of antibiotic or overcoming tolerance, acquired resistance
 PT or inherent resistance of microorganisms
 XX
 XX Claim 1; Page 91; 105pp; English.
 CC The present sequence represents an indolicidin analogue. The present
 CC invention describes compositions and methods for treating infection,
 CC especially bacterial infections. The compositions and methods use
 CC cationic peptides in combination with an antibiotic agent which are
 CC then administered to a patient to enhance the activity of the antibiotic
 CC agent, to overcome: (a) tolerance; (b) acquired resistance; and (c)
 CC inherent resistance. The combinations of antibiotics and cationic
 CC peptides can provide synergistic activity against a microorganism that
 CC is tolerant, inherently resistant, or has acquired resistance to an
 CC antibiotic agent. They can be used for killing e.g. bacteria, fungi,
 CC parasites and viruses.
 CC
 SQ Sequence 15 AA;
 QY
 DB 3 RRPMPMPMKWP 12
 3 RRPMPMPMKWP 12
 3 RRPMPMPMKWP 12

Query Match 68.4%; Score 70.5; DB 19; Length 15;
 Best Local Similarity 90.0%; Pred. No. 0.0023;
 Matches 9; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

RESULT 14
 AAY91784
 ID AAY91784 standard; peptide; 15 AA.
 XX
 AC AAY91784;
 XX
 DT 06-JUN-2000 (first entry)
 XX
 DE Amino acid sequence of cationic peptide MBI 11A9CN.
 XX
 KW Cationic peptide; tumour; pharmaceutical composition; cancer; treatment;
 KW leukaemia; polyoxaalkylene-modified; APO; lymphoma; multiple myeloma;
 KW breast; lung; ovary; cervix; uterus; skin; prostate; liver; colon;
 KW multidrug resistance.
 XX
 OS Synthetic.
 OS
 PN WO9965506-A2.
 XX
 PD 23-DEC-1999.
 PD
 XX 14-JUN-1999; 99WO-CA00552.
 PF
 XX 12-JUN-1998; 98US-0096541.
 PR
 XX (MICR-) MICROLOGIX BIOTECH INC.
 XX
 PA
 XX Friedland HD, Krieger TJ, Taylor R, Erfle D, Fraser JR, West MHP;
 PI WPI; 2000-223549/19.
 DR
 XX Novel pharmaceutical composition containing optionally activated
 PT polyoxaalkylene-modified cationic peptides, useful for treating tumours
 PS
 PS Claim 1; Page 14; 94pp; English.

XX This sequence represents a cationic peptide amino acid sequence, which
 CC can be used in the pharmaceutical composition of the invention. The
 CC invention relates to a pharmaceutical composition containing at least one
 CC activated polyoxalkylene (APO)-modified cationic peptide. The
 CC modification of peptides with APO increases their activity against tumour
 CC cells, including those with a multidrug resistant phenotype. The
 CC pharmaceutical composition can be used to treat tumours, specifically
 CC lymphoma, leukaemia, multiple myeloma, or tumours of breast, lung, ovary,
 CC cervix, uterus, skin, prostate, liver and colon.
 CC
 SQ Sequence 15 AA:

Query Match 68.4%; Score 70.5; DB 21; Length 15;
 Best Local Similarity 90.0%; Pred. No. 0.0023;
 Matches 9; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
 QY 3 RMPWMPKWP 12
 |||||
 Db 3 RWPWPWP 11

RESULT 15

AAV24566
 ID AAV24566 standard; peptide: 12 AA.

AC AAV24566;

DT 18-AUG-1999 (first entry)

DE Indolicidin analogue #18.

KW Indolicidin; bacterial infection; photo-oxidised solubiliser;

KM antimicrobial; antibiotic; antiarrhythmic; surface disinfectant;

KM additive; shampoo; soap; insecticide; herbicide; preservative;

XX food; technical material.

OS Synthetic.

PN WO9807745-A2.

PD 26-FEB-1998.

XX 21-AUG-1997; 97WO-US14779.

PR 13-JAN-1997; 97US-0034949.

PR 21-AUG-1996; 96US-0024754.

XX (MICR-) MICROLOGIX BIOTECH INC.

PI Erfle D, Fraser JR, Krieger TJ, Taylor R, West MH;

DR WPI; 1998-169090/15.

XX New indolicidin analogues with antimicrobial activity and related

PT nucleic acid - vectors, transformed cells and antibodies, also

PT conjugates with polyoxalkylene glycol and fatty acid to reduce

PT toxicity, useful therapeutically, as disinfectants etc.

XX Claim 12; Page 89; 129pp; English.

PS AAV24549 to AAV24615 represent indolicidin analogues of formulae

CC (I)-(VIII) containing up to 25 amino acids (aa): RXZXXZXB (I), BXZXXZXB

CC (II), BBZXXZXB (III), BZXZXXZBBn(AA)nMLBBAGS (IV), BXZXXZXB(AA)nM

CC (V), LBnZXXZXBnXK (VI), LKXZXXZXBnXK (VII) and BBZXXZXBnXK (VIII).

CC Where Z = P or V; X = hydrophobic residue, preferably W; B = basic aa;

CC preferably R or K; AA = any aa; n = 0 or 1; in (II), at least 1 Z = V;

CC in (VIII) at least 2 X = F or Y. The analogues are used to treat

CC infections caused by bacteria (Gram positive or negative, or anaerobic);

CC fungi (yeast or moulds); parasites (protozoa, nematodes, cestodes or

CC trematodes) or viruses. Typical of very many pathogens that can be

CC controlled are leishmania, Trypanosoma, Ascaris lumbricoides, Fasciola

CC hepatica, Klebsiella pneumoniae, Bordetella pertussis, Staphylococcus
 CC aureus, Listeria, Clostridium, rotavirus and papilloma virus. Compounds
 CC derived from the analogues may be used similarly; the compounds may
 CC also be prepared from antibiotics or antiarrhythmic agents. The analogues
 CC may be used therapeutically or to coat medical devices; also they are
 CC useful as surface disinfectants, as additives to shampoo or soaps, as
 CC insecticides or herbicides, or as preservatives for foods and technical
 CC materials. The analogues are administered by injection, lavage, orally
 CC or topically, generally at 0.1-50 mg/kg. These analogues have a broader
 CC spectrum of activity than indolicidin and modification as compounds
 CC reduces their toxicity.
 CC
 SQ Sequence 12 AA:

Query Match 68.0%; Score 70; DB 19; Length 12;
 Best Local Similarity 88.9%; Pred. No. 0.0021;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 2 RRPWMPWK 10
 |||||
 Db 3 RWPWPWP 11

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